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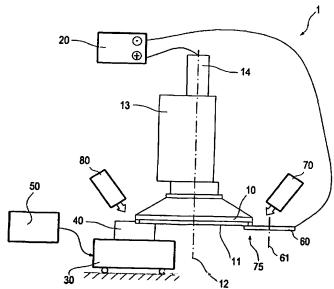
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[Continued on next page]

(54) Title: GRINDING MACHINE



(தீர்) Austract: A grinding machine (1) for grinding a workpiece (ஆர் லாம்பிக்க நீட following components: a cup wheel (பிர் having arssenneser grinding surface (11); a disc-shaped electrode (60), which is positioned in the vicinity of at least a portion of the grinding ortice (11) such that a dressing area (75) is obtained in which a relatively small gap is present between the electrode (60) and the g. 11); feed means (70) for feeding electrolyte to the dressing area (75); and a generator (20) for generating an electric current between the grinding surface (11) and the electrode (60), via the electrolyte. The electrode (60) is movable with respect to the dressing area (75), so that contamination of the electrode (60), which normally occurs as a result of the dressing process, is continuously removed. Consequently, the quality of the dressing process is maintained at a high level.



TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Declaration under Rule 4.17:

as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT,

LU, MC, NL, PT, RO, SE, SI, SK, TR), OAPI patent (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG)

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ÎPC 7	IFICATION OF SUBJECT MATTER B24B53/00 B23Q15/007				
According to	o International Patent Classification (IPC) or to both national	Classification and IDC			
B. FIELDS	SEARCHED				
IPC 7	ocumentation searched (classification system followed by classification by Classification system followed by	assification symbols)			
Documentat	tion searched other than minimum decreases.				
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Electronic da	ata base consulted during the international search (name of	data base and, where practical	search terms used)		
EPO-In	ternal, PAJ, WPI Data				
C. DOCUME	ENTS CONSIDERED TO BE RELEVANT				
Category °	Citation of document, with indication, where appropriate, or	f the relevant passages			
		Para-2800	Relevant to claim No.		
X	PATENT ABSTRACTS OF JAPAN vol. 1998, no. 06, 30 April 1998 (1998-04-30)		1-7, 20-34		
	& JP 10 044036 A (RIKEN SEIKO 17 February 1998 (1998-02-17) abstract; figures) KK),			
x .	PATENT ABSTRACTS OF JAPAN vol. 0154, no. 47 (M-1179), 14 November 1991 (1991-11-14) & JP 3 190667 A (OLYMPUS OPTICAL CO LTD), 20 August 1991 (1991-08-20) abstract; figures		1-15, 20-34		
		-/			
X Furthe	or documents are listed in the continuation of box C.	X Patent family me	embers are listed in annex.		
"A" document defining the general state of the art which is not considered to be of particular relevance "E" earlier document but published on or after the international filing date "L" document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) "O" document referring to an oral disclosure, use, exhibition or other means "P" document published ortor to the international filing date but later than the priority date claimed		"T" later document publis or priority date and i cited to understand Invention "X" document of particular cannot be considere involve an inventive "Y" document of particular cannot be considere document is combin ments, such combin in the art.	T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention. "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone. "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family		
ate of the ac	tual completion of the international search		International search report		
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	Fax: (+31-70) 340-3016	Garella,	M		

Internal application No
PCT/IB2004/050041

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Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT Citation of document, with Indication, where appropriate, of the relevant passages	
	passages	Relevant to daim No.
X	PATENT ABSTRACTS OF JAPAN vol. 0182, no. 29 (M-1598), 26 April 1994 (1994-04-26) & JP 6 023667 A (KOYO MACH IND CO LTD), 1 February 1994 (1994-02-01) abstract; figures	1,7
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A	EP 0 920 958 A (RIKAGAKU KENKYUSHO) 9 June 1999 (1999-06-09) abstract; figures	1,7,20, 27
A	PATENT ABSTRACTS OF JAPAN vol. 0050, no. 53 (M-063), 14 April 1981 (1981-04-14) & JP 56 009164 A (KOKU KIKAKU KOGYO KK), 30 January 1981 (1981-01-30) abstract	1,7,20, 27
:		

International application No. PCT/I B2004/050041

Box II Observations where certain claims were found unsearchable (Continuation of item 2 of first sheet) This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons: 1. Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely: Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: Claims Nos.:
because they relate to subject matter not required to be searched by this Authority, namely: 2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
because they relate to parts of the international Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically: 3. Claims Nos:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and this is
Box III Observations where unity of Invention is lacking (Continuation of item 3 of first sheet)
This international Searching Authority found multiple inventions in this international application, as follows:
see additional sheet
1. As all required additional search fees were timely paid by the applicant, this international Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
As only some of the required additional search fees were timely paid by the applicant, this International Search Report
4. No required additional search fees were timely pald by the applicant. Consequently, this International Search Report is restricted to the Invention first mentioned in the claims; it is covered by claims Nos.: 1-15, 20-34
The additional search fees.

FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

This International Searching Authority found multiple (groups of) inventions in this international application, as follows:

1. claims: 1-15,20-34

Method and apparatus for dressing having an electrode performing wobbling movements.

2. claims: 7+14,16-19

Method and apparatus for dressing having an electrode with holes.

3. claims: 35-43

Method, apparatus and control circuit controlling the z-position of a slide for supporting and positioing a workpiece.

Interna.....I Application No PCT/IB2004/050041

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Patent document clted in search report		Publication date		Patent family member(s)	Publication date
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JP 3190667	Α	20-08-1991	NONE		
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